

The Eastern Iowa Dixer

The official Newsletter of the Eastern Iowa DX Association



An affiliated club of the American Radio Relay League

April, 1997

Club Officers:	Repeater:
President: Terry Cellman WD0AWL	W0NX/R 144.59/145.19
Vice President: Wade Walstrom W0EJ	PacketCluster: WB8ZRL: 147.51,
Secretary/Treasurer: Frank Apple W0GWK	144.91, 223.40,
Repeater Committee: Al Groff K0VM	CRNETROM
Joe Finkstein W0MJN	
Membership Committee:	
Jim Spencer W0SR	
Dale Repp W0IZ	

MEETING NOTICE:

The next meeting of the Eastern Iowa DX Association will be Friday, May 9, 1997, in room 219C of Linn Hall on the Kirkwood Community College campus. Doors open at 7:00 PM with the meeting starting at 7:30 PM.

The program will feature Lew Gordon, K4VX, ARRL Midwest Director, who will give a presentation on the 1996 WRTC. Recall that Lew was the head judge of this world class event last summer. Lew has a video tape covering the contest and is sure to have lots of stories to tell about his experiences. This is a meeting you will not want to miss!

Kirkwood Community College located in Cedar Rapids south of US 30 and east of I380. Follow the highway signs. Also, monitor 144.59/145.19 for more detailed directions if needed.

Spring may finally be here! At least the spring EIDX meeting is coming up. Note that this meeting is the Friday before Dayton so there is no excuse to miss out on what promises to be an excellent program.

This newsletter would be a bit lean were it not for Dennis, N7CKD, who provided his Topband Frequency List for inclusion in this issue. This is an especially useful tool for chasing DX on the Topband since it shows the sub-bands for each DXCC country. This is normally a copyrighted document and Dennis usually sells this list for a nominal fee. He has allowed us to include it in the newsletter for use by our members. In other words, it is copied here by permission! Thanks, Dennis!

Also included here are the minutes of the last EIDX meeting. For those of you who have not paid your 1996-1997 dues yet, this will be your last newsletter! Be sure to see Frank, W0GWK, to get paid up!

I am scrambling to finish preparation of this issue of the newsletter and was told to be in Florida the rest of this week (4-21)! Tom, WB8ZRL, has graciously agreed to put the wraps on this issue and get it distributed. My thanks to Tom!

I am sad to report that another of our members, Jack Muckler, NB0H, recently became a silent key after a period of declining health. I will remember Jack for the sparkle in his eye, his smile, and his warm heart. Jack liked to work DX and was always building or modifying something. He will be missed. 73, Jack!

Wade W0EJ

Minutes of the January 17, 1997 Meeting

The Winter meeting of the EIDXA was held in Cedar Hall on the Kirkwood Campus. The meeting had been originally scheduled for 10 Jan. 1997 but was delayed due to the cold weather. This meeting was a joint meeting of the EIDXA and the Iowa City Amateur Radio Club. Other local radio clubs were invited to hear our guest speaker Joel Dryer, N0GHT. Mr. Dryer's talk expanded on his Oct. 1996 QST article on restrictive covenants to also include ordinances. His excellent talk preceded the EIDXA business meeting.

The meeting began with the minutes being approved as published.

Al, K0VM gave the repeater report stating that the repeater had "cold feet". It would stop working when the temperature got very cold.

Tom, WB8ZRL said that the DX cluster was working well.

Bruce, WA3AFS mentioned that the Cedar Valley Amateur Radio Club was putting on a Midnight Special contest Saturday, 8 Mar 1997 beginning at 11 PM Local.

Not enough shirts have been ordered yet. Terry Cellman, WD0AWL requested that anyone is interested in ordering a shirt should contact him.

Jim, W0SR gave the DXAC report. He requested that everybody complete the survey form found in the Oct 1996 QST on page 83 and send it in.

A motion was passed to send a \$100 check to the Heard Island DXpedition.

Dennis Peterson, N7CKD was approved as a new member.

A motion was passed to send a check for \$25 to our speaker as an honorarium.

Rich, WW0Q asked if there was any interest in having a EIDXA web site. He said he could build one for us in conjunction with the one he was doing for the ICARC which he is working on. His offer was accepted.

Respectfully

Frank Apple, W0GWK
Sec. / Treas.

IS THERE REALLY A NEED FOR A TOWER ORDINANCE?

It was not too long ago that those of us in Linn County were deeply involved in working on the proposed and now enacted tower ordinance. Part of the frustration we felt at the time was that the ordinance was not needed because we knew how to put up a tower. The following two items came across the Internet recently and are certainly reason to reflect on our "experience" with our towers.

"I do a lot of tower work for my two way radio business, and recently picked up a new Low Band customer (31 MHz). He has a 110 foot Rohn 25g tower that has been up for 14 years. It is guyed approximately 20 feet up in 2 long dead trees with cheapo 3/8 eye screws, no tumbuckles, no guy grips or clamps (has unknown type of crimp connectors on guys-looks like large non-insulated butt splices to me), uses 1/8" solid hardware store style guy wire, a large Ash tree grew around one set of guys and every time the wind blows it slaps the three guy wires, 4 of the guys have approximately 12" sag on the total length, the base is 2 feet deep (according to him), and it only has occasional bolts installed in the sections (viewed with binoculars), and to top it all off it's not grounded at all either.

"The customer doesn't understand why the whole thing has to come down and be redone completely, he's perfectly content with what he has!

"Think this would classify as one of those Condor Lift jobs ????

"If I ever tried to jury rig something like this, guaranteed it would fall down the next day.

"PS This tower was put up by a 'professional.'"

Scary, right? How about this one?

"A few weeks ago there was a post (imported from another group) by an obviously inexperienced person who wanted to put up some sort of house bracketed tower.

Shortly after that I ran across an article in Radio World (a broadcasting trade paper) by a Troy Conner of Tower Maintenance Specialists. He had been asked to look this tower over by a small church that thinking of buying it along with a radio station. Here are the some excerpts; unfortunately I'm not able to reproduce several photographs from the original article.

"...a small guyed tower 140 feet tall, with a face width of 12 inches. The structure was stayed by four guy levels, with three cables at each level. A folded AM radiator was installed on the structure.

"Even at a distance, I could see that this tower had a serious problem. The top 20 feet was canted about 10 or 15 degrees out of plumb. Closer examination made the problems of this tower even more evident.

"Starting at the ground, I examined three guy anchors. While the connections were in fair shape, the cable tensions were horribly low. At the base of the tower, I was in for my next surprise. Normally, a tower is firmly bolted to the concrete foundation pier. In this case, the tapered base section actually stood on the top of the anchor bolts. Nothing prevented the tower from merely falling off the pier.

"The concrete foundation pier had been poured inside an 18-inch galvanized culvert pipe, which extended about 4 feet above grade. In addition to being too small and protruding way too far above ground, the pier appeared to have shifted slightly downhill, causing a distinct lean.

"Examining the first splice, I noted that the bolt holes between sections did not appear to line up. As a result, the original crew had used smaller diameter bolts. Later, the manufacturer of these sections told me that their towers must be assembled in sequence, although the sections appear identical. Not only

were bolts used in only about half of the holes; the bolts themselves were too short, often only catching part of the nut.

"At 100 feet, I decided to climb no further. At this point, the tower was held together tenuously by one bolt on one leg, two U-bolts haphazardly around the second leg, and a tumbuckle on the third. Apparently, the crew, having run out of sections from one manufacturer, simply created this fine interface in order to use some handy sections from another company.

"The piece de resistance was the old rusted come-along with two of the four cable strands broken. In lieu of bolts, this splendid arrangement had been contrived to connect the seventh and eighth sections. The top 40 feet of tower did not appear to have any splice bolts; only gravity and friction held the sleeve-type connections between sections."

"I hope your towers don't fit the above description!"

Me, too! I cannot imagine even trying to climb one of these towers!

There is a line from an old Peanuts cartoon where Charlie Brown is lamenting after another baseball game loss, "How can we lose when we are so sincere?" In the case of amateur radio, towers, and local governments sincerity is measured by actions. I know it may be hard to swallow, but after reading these horror stories, there may be some justification for concern about towers on the part of local governments.

A word for the wise W0EJ

NR01H

Jack Muckler Silent Key

Jack became a silent key on April 17 following a long illness. Jack was born in 1924, served in the Navy during WW II, and retired from Collins after 38 years. Jack was an EIDX member for 13 years and had served as secretary/treasurer.

Jack was an avid experimenter. He was much more at home at his work bench than he was at the operating position. He designed and built several keys on his lathe. He nearly completed a 4 x 811 amplifier which was never quite good enough (to his standards) to put online. He loved to homebrew his antennas. Numerous wire antennas have hung from his tower over the years. He was prouder of his homemade 220 packet yagi than he was of his 3Y0PI card.

Jack did earn a spot on the DXCC listing that was well up the ladder. He chased DX on SSB, CW and RTTY. And he worked much of what he chased. His call will be missed in the HF pileups, as will it on the repeater.

RIP Jack

PREFIX COUNTRY CW SSB ZONE CALL QSL

1	1A0	Sov Mil Order of Malta				15RU	
2	1S	Spratly Is				26AS	
3	3A	Monaco	1830-1850			14RU	
4	3B6,7	Agalega & St Brandon	1830-1850			39AP	
5	3B8	Mauritius	1830-1850			39AF	
6	3B9	Rodriguez I	1830-1850			39AF	
7	3C	Equatorial Guinea	1830-1850			36AF	
8	3C0	Pagalu I	1830-1850			36AF	
9	3D2	Conway Reef	1800-2000			32OC	
10	3D2	Fiji	1800-2000			32OC	
11	3D2	Rotuma I	1800-2000			32OC	
12	3DA	Swaziland	1810-1850			38AF	
13	3V	Tunisia	1810-1830			33AF	
14	3W,XV	Vietnam				26AS	
15	3X	Guinea	1800-1850			35AF	
16	3Y	Bouvet	1902-1850			38AF	
17	3Y	Peter I I.	1800-2000			12AN	
18	4J,4K	Azerbaijan	1830-1860			21AS	
19	4L	Georgia	1830-1860			22AS	
20	4P-4S	Sri Lanka	1850-2000			22AS	
21	4U	United Nations HQ	1800-2000			05NA	
22	4U	ITU HQ	1810-2000			14EU	
23	4X,4Z	Israel	1810-2000			20AS	
24	5A	Libya	1810-1830			34AF	
25	5B	Cyprus	1800-1900			20AS	
26	5H-5I	Tanzania	1810-1830			37AF	
27	5N-5O	Nigeria	1800-2000			35AF	
28	5R-5S	Madagascar	1830-1850			39AF	
29	5T	Mauritania	1830-1850			35AF	
30	5U	Niger	1830-1850			35AF	
31	5V	Togo	1830-1850			35AF	
32	5W	Western Samoa	1800-2000			32OC	
33	5X	Uganda	1810-2000			37AF	
34	5Y-5Z	Kenya	1810-1830			37AF	
35	6V-6W	Senegal	1810-1850			35AF	
36	6Y	Jamaica	1800-2000			08NA	
37	70	Yemen	1810-2000			21AS	
38	7P	Lesotho	1810-1850			38AF	
39	7Q	Malawi	1810-2000			37AF	
40	7T-7Y	Algeria	1830-1850			33AF	
41	8P	Barbados	1800-2000			08NA	
42	8Q	Maldives	1810-2000			22AS/AF	
43	8R	Guyana	1810-2000			09SA	
44	9A,YU2	Croatia	1810-1830			15EU	
45	9G	Ghana	1810-2000			35AF	
46	9H	Malta	1810-2000			15EU	
47	9I-9J	Zambia	1810-2000			36AF	
48	9K	Kuwait	1810-2000			21AS	
49	9L	Sierra Leone	1810-2000			35AF	
50	9M2,4	West Malaysia	1800-2000			28AS	

PREFIX COUNTRY CW SSB ZONE CALL QSL

51	9M6,8	East Malaysia	1800-2000	1800-2000	280C	
52	9N	Nepal	1830-1850	1800-2000	22AS	
53	9Q-9T	Zaire		1830-1850	36AF	
54	9U	Burundi			36AF	
55	9V	Singapore	1800-2000	1850-2000	28AS	
56	9X	Rwanda			36AF	
57	9Y-9Z	Trinidad & Tobago	1800-2000	1800-2000	09SA	
58	A2	Botswana	1810-1850	1810-1850	38AF	
59	A3	Tonga	1800-2000	1800-2000	320C	
60	A4	Oman	1800-2000		21AS	
61	A5	Bhutan	1800-2000	1800-2000	22AS	
62	A6	United Arab Emirates	1800-2000	1800-2000	21AS	
63	A7	Qatar	1800-2000	1800-2000	21AS	
64	A9	Bahrain	1800-2000	1800-2000	21AS	
65	AP-AS	Pakistan	1800-2000	1800-2000	21AS	
66	BS7	Scarborough Reef	1800-2000	1800-2000	270C	
67	BV	Taiwan	1800-2000	1800-2000	24AS	
68	BV9P	Pratas I.	1800-2000	1800-2000	24AS	
69	BY, BT	China	1800-2000	1800-2000	25, 24AS	
70	C2	Nauru	1800-2000	1800-1860	310C	
71	C3	Andorra	1810-1875	1825-1875	14EU	
72	C5	Gambia	1830-1850	1830-1850	38AF	
73	C6	Bahamas	1800-1825/1975-2000	1800-1825/1975-2000	08NA	
74	C8-9	Mozambique	1830-1850		37AF	
75	CA-CE	Chile	1800-2000	1800-2000	12SA	
76	CE0	Easter I	1800-2000	1800-2000	12SA	
77	CE0	Juan Fernandez Is.	1800-2000	1800-2000	12SA	
78	CE0	San Felix & San Ambrosio	1800-2000	1800-2000	12SA	
79	CE9/XC4	Antarctica	1800-2000	1800-2000	08NA	
80	CH, CO	Cuba	1800-2000	1800-2000	33AF	
81	CN	Morocco	1800-1850	1800-1850	10SA	
82	CP	Bolivia	1830-1850	1830-1850	14EU	
83	CT	Portugal	1830-1850	1830-1850	33AF	
84	CT3	Madeira Is	1830-1850	1830-1850	14EU	
85	CU	Azores	1800-2000	1800-2000	05NA	
86	CV-CX	Uruguay	1800-2000	1800-2000	05NA	
87	CY0	Sable I	1800-2000	1800-2000	270C	
88	CY9	St. Paul I	1800-2000	1800-2000	36AF	
89	D2-3	Angola	1830-1850	1830-1850	35AF	
90	D4	Cape Verde	1830-1850	1830-1850	39AF	
91	D6	Comoros	1830-1850	1830-1850	14EU	
92	DL	Germany	1815-1835	1850-1890	270C	
93	DU-DZ	Philippines	1800-2000	1800-2000	37AF	
94	E3	Eritrea			14EU	
95	EA-EH	Spain	1830-1850	1830-1850	14EU	
96	EA6-EH6	Balearic Is	1830-1850	1830-1850	33AF	
97	EA8-EH8	Canary Is	1830-1850	1810-1856	33AF	
98	EA9-EH9	Ceuta & Melilla	1830-1850	1810-1856	33AF	
99	EI-EJ	Ireland	1820-2000	1820-2000	14EU	
100	EK	Armenia	1830-1860	1860-1890/1900-1930	21AS	

PREFIX

COUNTRY

CW

SSB

ZONE

CALL

QSL

101	EL	Liberia	1825-1850	1825-1850			
102	XP-ZQ	Iran			35AP		
103	XR	Moldova	1830-1860	1860-1890/1900-1930	21AS		
104	XS	Estonia	1810-1860	1860-1890/1900-1930	16KU		
105	XT	Ethiopia	1810-1830		15BU		
106	XU, EV, EW	Belarus	1830-1860	1860-1890/1900-1930	37AP		
107	XX	Kyrgyzstan	1830-1860	1860-1890/1900-1930	16KU		
108	EY	Tajikistan	1830-1860	1860-1890/1900-1930	17AS		
109	EZ	Turkmenistan	1830-1860	1860-1890/1900-1930	17AS		
110	P	France	1810-1850	1860-1890/1900-1930	17AS		
111	FG	Guadeloupe	1810-1850	1810-1850	14BU		
112	FH	Mayotte	1810-1850	1810-1850	08NA		
113	FJ, FS	Saint Martin	1810-1850	1810-1850	39AP		
114	FK	New Caledonia	1810-1850	1810-1850	08NA		
115	FM	Martinique	1810-1850	1810-1850	32OC		
116	FO	Clipperton I.	1810-1850	1810-1850	08NA		
117	FO	French Polynesia	1800-2000	1800-2000	07NA		
118	FP	St. Pierre & Miquelon	1810-1850	1810-1850	32OC		
119	FR	Reunion	1810-1850	1810-1850	05NA		
120	FR/G	Glorioso Is.	1810-1850	1810-1850	39AP		
121	FR/J, Z	Juan de Nova, Europa	1830-1850	1830-1850	39AP		
122	FR/T	Tronelin I.	1830-1850	1830-1850	39AP		
123	FTBW	Crozet I.	1810-1850	1810-1850	39AP		
124	FTBX	Requien Is.	1810-1850	1810-1850	39AP		
125	FTBZ	Amsterdam & St. Paul Is.	1810-1850	1810-1850	39AP		
126	FW	Wallis & Futuna Is.	1810-1850	1810-1850	39AP		
127	FY	French Guiana	1810-1850	1810-1850	32OC		
128	G, GX	England	1810-1850	1810-1850	09SA		
129	GD, GT	Isle of Man	1810-2000	1810-2000	14BU		
130	GI, GN	Northern Ireland	1810-2000	1810-2000	14BU		
131	GJ, OH	Jersey	1810-2000	1810-2000	14BU		
132	GH, GS	Scotland	1810-2000	1810-2000	14BU		
133	GU, GP	Guernsey	1810-2000	1810-2000	14BU		
134	GH, GC	Wales	1810-2000	1810-2000	14BU		
135	H4	Solomon Is.	1810-2000	1810-2000	14BU		
136	HA, HG	Hungary	1800-2000	1800-2000	28OC		
137	HB	Switzerland	1830-2000	1830-2000	15BU		
138	HD	Liechtenstein	1810-1850	1810-1850	14BU		
139	HC, HD	Ecuador	1800-2000	1800-2000	14BU		
140	HC'S-HDB	Galapagos Is.	1800-2000	1800-2000	10SA		
141	HH	Haiti	1800-2000	1800-2000	10SA		
142	HI	Dominican Republic	1800-2000	1800-2000	08NA		
143	HJ, HK	Colombia	1800-2000	1800-2000	08NA		
144	HKO	Malpelo I.	1800-2000	1800-2000	09SA		
145	HKO	San Andres & Providencia	1800-2000	1800-2000	09SA		
146	HL	South Korea	1800-1825	1800-1825	07NA		
147	HO-HP	Panama	1800-2000	1800-2000	25AS		
148	HQ-BR	Honduras	1800-2000	1800-2000	07NA		
149	HS	Thailand	1800-2000	1800-2000	07NA		
150	HV	Vatican	1830-1850	1830-1850	26AS		
					15BU		

N7CKD's TOPBAND FREQUENCY LIST

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PREFIX COUNTRY CW SSB ZONE CALL QSL

151	BZ	Saudi Arabia	1800-2000	1800-2000	21AS	
152	I	Italy	1830-1850	1830-1850	15EU	
153	IS0, IM0	Sardinia	1830-1850		15EU	
154	J2	Djibouti	1810-1850	1810-1850	37AF	
155	J3	Grenada	1800-2000	1800-2000	08NA	
156	J5	Guinea-Bissau	1800-2000	1800-2000	35AF	
157	J6	St. Lucia	1830-1850	1830-1850	08NA	
158	J7	Dominica	1810-2000	1810-2000	08NA	
159	J8	St. Vincent	1800-2000	1800-2000	08NA	
160	JA-JB	Japan	1907.5-1912.5		25AS	
161	JD1	Ogasawara	1907.5-1912.5		27AS	
162	JD1	Minami Torishima	1907.5-1912.5		27OC	
163	JT-JV	Mongolia	1820-1850		23AS	
164	JW	Svalbard	1820-1850		40EU	
165	JX	Jan Mayen	1820-1850		40EU	
166	JY	Jordan	1820-1850		20AS	
167	K, N, N, AA-AK	United States of America	1800-2000	1800-2000	4-7NA	
168	KC6	Belau (W. Caroline Is.)	1800-2000	1800-2000	27OC	
169	KG4	Guantanamo Bay	1800-2000	1800-2000	08NA	
170	KH0	Mariana Is.	1800-2000	1800-2000	27OC	
171	KH1	Baker & Howland Is.	1800-2000	1800-2000	31OC	
172	KH2	Guam	1800-2000	1800-2000	27OC	
173	KH3	Johnston I.	1800-2000	1800-2000	31OC	
174	KH4	Midway I.	1800-2000	1800-2000	31OC	
175	KH5	Palmyra & Jarvis Is.	1800-2000	1800-2000	31OC	
176	KH5K	Kingman Reef	1800-2000	1800-2000	31OC	
177	KH6	Hawaii	1800-2000	1800-2000	31OC	
178	KH7	Kure I.	1800-2000	1800-2000	31OC	
179	KH8	American Samoa	1800-2000	1800-2000	32OC	
180	KH9	Make I.	1800-2000	1800-2000	31OC	
181	KL7	Alaska	1800-2000	1800-2000	01NA	
182	KP1	Navassa I.	1800-2000	1800-2000	08NA	
183	KP2	Virgin Is.	1800-2000	1800-2000	08NA	
184	KP4	Puerto Rico	1800-2000	1800-2000	08NA	
185	KP5	Beseecho I.	1800-2000	1800-2000	08NA	
186	LA-LN	Norway	1820-1850		14EU	
187	LO-LW	Argentina	1800-1810	1810-1850	13SA	
188	LX	Luxembourg	1810-1850	1810-1850	14EU	
189	LY ex UP	Lithuania	1830-1860	1860-1890/1900-1930	15EU	
190	LZ	Bulgaria	1810-1850/1810-1913	1810-1850	20GU	
191	OA-OC	Peru	1800-2000	1800-2000	10SA	
192	OD	Lebanon	1830-1850	1830-1850	20AS	
193	OB	Austria	1810-1850	1840-1950	15EU	
194	OF-OI	Finland	1810-1850/1915-1955	1810-1850/1915-1955	15EU	
195	OH0	Aland Is.	1810-1850/1915-1955	1810-1850/1910-1955	15EU	
196	OJ0	Market Reef	1810-1850/1910-1955	1810-1850/1910-1955	15EU	
197	OK-OL	Czechoslovakian Republic	1810-1820/1820-2000	1820-2000	15EU	
198	OH	Slovak Republic	1820-2000/1820-2000	1820-2000	15EU	
199	ON-OT	Belgium	1830-1850	1830-1850	14EU	
200	OX	Greenland	1800-1850	1800-1850	40NA	

PREFIX COUNTRY CW SSB ZONE CALL QSL

201	OY	Faroe Is.	1830-1850	1830-1850	14RU	
202	OZ	Denmark	1830-1850		14RU	
203	P2	Papua New Guinea	1800-1866/1874-2000	1800-1866/1874-2000	28OC	
204	P4	Aruba	1800-2000	1800-2000	09SA	
205	P5	North Korea			25AS	
206	PA-P1	Netherlands	1810-1850	1810-1850	14RU	
207	PJ2,4,9	Bonaire, Curacao (Neth. Antilles)	1800-2000	1800-2000	09SA	
208	PJ5-8	St. Maarten, Saba, St. Eustatius	1810-2000	1810-2000	08NA	
209	PP-PY	Brazil	1800-1850	1800-1850	11SA	
210	PP0-PY0	St. Peter & St. Paul Rocks	1800-1850	1800-1850	11SA	
211	PP0-PY0	Fernando de Noronha	1800-1850	1800-1850	11SA	
212	PP0-PY0	Trindade & Martim Vaz Is.	1800-1850	1800-1850	11SA	
213	PZ	Suriname	1800-2000	1800-2000	09SA	
214	R1P-J	Franz Josef Land	1830-1860	1860-1890/1900-1930	40RU	
215	R1W	Malyj Vysotskiy I	1830-1860	1860-1890/1900-1930	16RU	
216	RV	Western Sahara			33AF	
217	S2	Bangladesh			22AS	
218	S5 (ex YU3)	Slovenia	1810-1830	1810-1830	15RU	
219	S7	Seychelles	1830-1850	1830-1850	39AF	
220	S9	Sao Tome & Principe	1830-1850	1830-1850	36AF	
221	SA-SH	Sweden	1820-1850	1820-1850	14RU	
222	SN-SR	Poland	1810-1830/1850-1930	1810-1830/1850-1930	15RU	
223	SN-SR	Poland	1750-1800		15RU	
224	ST	Sudan			34AF	
225	ST0	Southern Sudan			34AF	
226	SU	Egypt	1810-1830		34AF	
227	SV-SZ	Greece	1830-1850	1830-1850	20RU	
228	SV/A	Mount Athos	1830-1850	1830-1850	20RU	
229	SV5	Dodecanese	1830-1850	1830-1850	20RU	
230	SV9	Crete	1830-1850	1830-1850	20RU	
231	T2	Tuvalu	1803-1857/1867-1950	1803-1857/1867-1950	31OC	
232	T30	M. Kiribati (Gilbert Is.)	1800-2000	1800-2000	31OC	
233	T31	C. Kiribati (Brit. Phoenix Is.)	1800-2000	1800-2000	31OC	
234	T32	S. Kiribati (Line Is.)	1800-2000	1800-2000	31OC	
235	T33	Banaba I. (Ocean I.)	1800-2000	1800-2000	31OC	
236	T5	Somalia	1810-1830		37AF	
237	T7	San Marino	1810-1850	1830-1850	15RU	
238	T9 ex 4N4, 4O4, YU4	Bosnia-Herzegovina	1830-1860	1860-1890/1900-1930	15RU	
239	TA, TC	Turkey	1830-1850	1830-1850	20RU/AS	
240	TF	Iceland	1830-1850	1830-1850	40RU	
241	TG, TD	Guatemala	1800-2000	1800-2000	07NA	
242	TI, TE	Costa Rica	1800-2000	1800-2000	07NA	
243	TI9	Cocos I.	1830-1850	1830-1850	36AF	
244	TJ	Cameroon	1830-1850	1830-1850	15RU	
245	TK	Corsica	1830-1850	1830-1850	36AF	
246	TL	Central Africa	1830-1850	1830-1850	36AF	
247	TN	Congo	1830-1850	1830-1850	36AF	
248	TR	Gabon	1830-1850	1830-1850	36AF	
249	TT	Chad	1830-1850	1830-1850	36AF	
250	TU	Ivory Coast (Cote d'Ivoire)	1800-1850		35AF	

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250	TY	Benin	1830-1850	1830-1850	35AF	
251	TZ	Mali	1830-1850	1830-1850	35AF	
252	UA-UT1, 3, 4, 6 RA-RZ	European Russia	1830-1860	1860-1890/1900-1930	16EU	
253	UA2	Kalinigrad	1830-1860	1860-1890/1900-1930	15EU	
254	UA-D18, 9, 0 RA-RZ	Asiatic Russia	1830-1860	1860-1890/1900-1930	18AS	
255	UJ-UM	Uzbekistan	1830-1860	1860-1890/1900-1930	17AS	
256	UN-UQ	Kazakhstan	1830-1860	1860-1890/1900-1930	17AS	
257	UR-UZ, EW-EO	Ukraine	1830-1860	1860-1890/1900-1930	16EU	
258	V2	Antigua & Barbuda	1800-2000	1800-2000	08NA	
259	V3	Belize	1800-2000	1800-2000	07NA	
260	V4	St. Kitts & Nevis	1800-2000	1800-2000	08NA	
261	V5	Namibia	1810-1850	1810-1850	39AF	
262	V6	Micronesia (B. Caroline Is.)	1800-2000	1800-2000	27OC	
263	V7	Marshall Is.	1800-2000	1800-2000	31OC	
264	V8	Brunei	1800-2000	1800-2000	29OC	
265	VE, VO, VY	Canada	1800-2000	1800-2000	1-5NA	
266	VK	Australia	1800-1875	1800-1875	29, 30OC	
267	VR0	Macquarie I.	1800-1866/1874-1875	1800-1866	39AF	
268	VR0	Heard I.	1800-1866/1874-1875	1800-1866	30OC	
269	VR9C	Cocos-Keeling Is.	1800-1866/1874-1875	1800-1866	20OC	
270	VR9L	Lord Howe I.	1800-1866/1874-1875	1800-1866	30OC	
271	VR9M	Hellish Reef	1800-1866/1874-1875	1800-1866	30OC	
272	VR9N	Norfolk I.	1800-1866/1874-1875	1800-1866	32OC	
273	VR9W	Hill's I.	1800-1866/1874-1875	1800-1866	30OC	
274	VR9X	Christmas I.	1800-1866/1874-1875	1800-1866	29OC	
275	V22E	ANgwailla	1800-2000	1800-2000	08NA	
276	V22M	Montserrat	1800-2000	1800-2000	08NA	
277	V22V	British Virgin Is.	1800-2000	1800-2000	08NA	
278	VP5	Turks & Caicos Is.	1800-2000	1800-2000	08NA	
279	VP8	Falkland Is.	1810-2000	1810-2000	13SA	
280	VP8, LU	South Georgia I.	1810-2000	1810-2000	13SA	
281	VP8, LU	South Orkney I.	1810-2000	1810-2000	13SA	
282	VP8, LU	South Sandwich Is.	1810-2000	1810-2000	13SA	
283	VP8, LU, CH9, HF0, 4K1	South Shetland Is.	1810-2000	1810-2000	13SA	
284	VP9	Bermuda	1800-1825/1875-1900	1800-1825/1875-1900	05NA	
285	VQ9	Chagos Is.	1810-2000	1810-2000	39AF	
286	VR6	Pitcairn I.	1830-1850	1830-1850	32OC	
287	VS6, VR2	Hong Kong	1800-2000	1800-2000	24AS	
288	VU	Laccadive Is.	1820-1860	1820-1860	22AS	
289	VU	Andaman & Nicobar Is.	1820-1860	1820-1860	26AS	
290	VU *	India	1820-1860	1820-1860	22AS	
291	XA-XI	Mexico	1800-1850	1800-1850	06NA	
292	XA4-X14	Revilla Giledo	1800-2000	1800-2000	06NA	
293	XT	Burkina Faso	1810-2000	1810-2000	35AF	
294	XU	Cambodia	DGPT designation of s	single frequency only	26AS	
295	XW	Laos	DGPT designation of s	single frequency only	26AS	
296	XX9	Macao	1800-2000	1800-2000	24AS	
297	XY-X2	Myanmar (formerly Burma)			26AS	
298	YA	Afghanistan			21AS	
299	YB-YH	Indonesia	1900-2000	1800-2000	28OC	

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300	YI	Iraq	1810-1830		21AS	
301	YJ	Yamutu	1800-2000	1800-2000	32OC	
302	YK	Syria	1830-1850	1830-1850	20AS	
303	YL ex UQ	Latvia	1830-1860	1860-1890/1900-1930	15BU	
304	YN	Nicaragua	1800-2000	1800-2000	07NA	
305	YO-YR	Romania	1810-1850	1810-1850	20BU	
306	YS	El Salvador	1800-2000	1800-2000	07NA	
307	YT-YU YZ	Yugoslavia	1810-1830	1810-1830	15BU	
308	YV-YY	Venezuela	1800-2000	1800-2000	09SA	
309	YV0	Aves I.	1800-2000	1800-2000	08NA	
310	Z2	Zimbabwe	1810-1850	1810-1850	38AF	
311	Z3 ex 4N5,YU5	Macedonia (former Yugoslav Rep)	1810-1830	1810-1830	15BU	
312	ZA	Albania	1825-1850	1825-1850	15BU	
313	ZB2	Gibraltar	1800-2000	1800-2000	14BU	
314	ZC4	UK Sov. Base Areas on Cyprus	1825-1850	1825-1850	20AS	
315	ZD7	St. Helena	1810-2000	1810-2000	36AF	
316	ZD8	Ascension I.	1810-2000	1810-2000	36AF	
317	ZD9	Tristan da Cunha & Gough I.	1810-2000	1810-2000	36AF	
318	ZF	Cayman Is.	1810-2000	1810-2000	08NA	
319	ZK1	N. Cook Is.	1810-1890	1810-1890	32OC	
320	ZK1	S. Cook Is.	1810-1890	1810-1890	32OC	
321	ZK2	Niue	1810-1890	1810-1890	32OC	
322	ZK3	Tokelau Is.	1803-1857/1863-1950	1803-1857/1863-1950	31OC	
323	ZL-ZM	New Zealand	1803-1857/1863-1950	1803-1857/1863-1950	32OC	
324	ZL7	Chatham Is.	1803-1857/1863-1950	1803-1857/1863-1950	32OC	
325	ZL8	Kermadec Is.	1803-1857/1863-1950	1803-1857/1863-1950	32OC	
326	ZL9	Auckland & Campbell Is.	1803-1857/1863-1950	1803-1857/1863-1950	32OC	
327	ZP	Paraguay	1850-2000	1850-2000	11SA	
328	ZR-ZU	South Africa	1810-1850	1810-1850	38AF	
329	Z98	Prince Edward & Marion Is.	1810-1850	1810-1850	38AF	

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